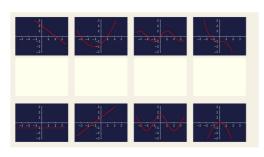
## **DO NOW**

Match the graph of the function in the top row with the graph of its derivative in the bottom row.



Page 1

## 3.1 Derivatives Introduction - Day 5

Differentiability Implies Continuity:

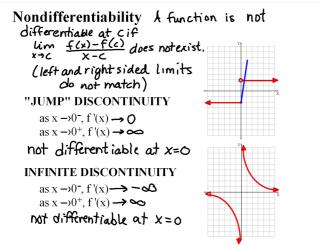
If f is differentiable at x=c, then f is continuous at x=c.

HOWEVER-

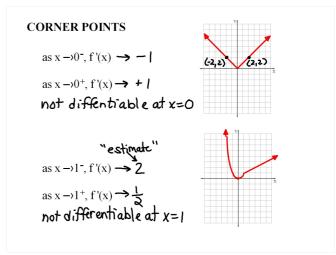
Continuity does not imply (quarantee) differentiability.

\*It is possible for a function to be continuous at x=C and not differentiable at x=c.

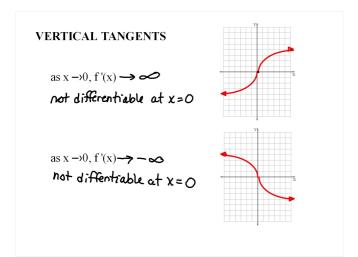
Page 2



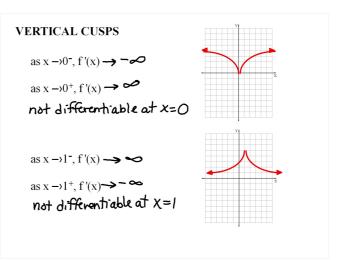
Page 3



Page 4

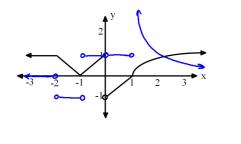


Page 5



Page 6

Sketch the graph of f'(x), given the graph of f(x) below.



## **HOMEWORK**

pg 126; 81 - 86, 91, 93, 95, 100 - 102

Revisit the websites for more practice with the graphing aspect if necessary.

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